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1. [14.1-FH5 : Visually unobtrusive traffic monitoring for National Park Service Parkways](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

The mission of the National Park Service (NPS) is to preserve unimpaired the natural and cultural resources and values of the national park system. However, the NPS road network, especially in urban areas is facing congestion issues like those seen around the country. State Departments of Transportation are applying operational strategies to help manage this increasing concern which can be a ...

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2. [14.1-FR1: Lightweight, Portable System for Mid-Chord Offset Measurement of Railroad Rails](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

A common measurement for quantifying aspects of railroad track geometry is the mid-chord offset (MCO). MCO measurements enable railroads to maintain their track to safe standards that comply with federal regulations. In order to obtain MCO measurements, railroad personnel (as well as federal and state inspectors) use string line measurements to measure right and left rail deviations in ...

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3. 14.1-FR3: Easy Access to Freight Locomotives

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Engineers, Conductors and Brakemen enter and exit from Freight Locomotives several time per trip in the course of the workday. This entails walking on ballast on a slope. Steps allow the worker to climb up to the first step and the remaining steps to the platform., walk towards the cab entry door. Often the step up is conjunction with the locomotive movement at slow speeds. This is "risky&rd ...

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4. 14.1-FH1: Development of Prestressed Concrete Nondestructive Evaluation (NDE) Inspection Procedures

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Approximately 66% of existing concrete bridges consist of prestressed concrete components (calculated by deck area). Prestressed concrete is constructed using either pre tensioned or post tensioned steel tendons as tensile reinforcement. Similar to traditional reinforcement (rebar), these tendons experience degradation due to corrosion and carbonation. However, unlike typical str ...

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5. 14.1-FH2: Personalized Driving Data for Insurance Discounts & Public Benefits

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Traditional car insurance rates vary little, if at all, based on mileage and observed driving safety, even though they clearly and directly relate to crashes and claims, and charging based on actual risk exposure would improve safety and the environment, reduce energy use, and lessen crash-caused congestion. Brookings Institution research shows that pay-as-you-drive insurance (PAYDI) would lead to ...

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6. 14.1-FH3: Suppressing Utility Problems- Protection via Robotic Engineering to the Sub-Surface

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Poles supporting overhead utilities in the right-of-way represent a significant safety hazard for drivers and occupants of vehicles. While other hazards exist on the roadside, vehicles that crash into these utility poles typically suffer serious damage and increase the risk of serious injury or death for the occupants. Over 1,000 fatalities each year are attributed to crashes involving ...

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7. [14.1-FH4: STEM Education- Increasing awareness about Intelligent Transportation Systems and Connected Vehicle Technologies for High School Students](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

This topic exposes students to real world transportation problems to demonstrate how transportation planners, technicians and engineers contribute to solving our nation's environmental and livability challenges. A recent report noted that nearly 60 percent of the nation's students who begin high school interested in science, technology, engineering, and math (STEM) chang ...

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8. [14.1-FR2: Wheel Load Cycle Tag for Rail](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

In the railroad industry, the "age" of rail is measured by the number and severity of wheel loads. Typically the age of the rail is quantified as millions of gross tons (MGT). As rails age, they are more susceptible to developing rolling contact fatigue. Rolling contact fatigue can lead to rail internal defects which, in turn, can lead to rail failure and a trai ...

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9. [14.1-FH6: Corrosion Resistant Prestressing Strand for Prestressed Concrete Bridges](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

The number of prestressed concrete bridge structures utilizing high strength 7-wire strand (black strand) has increased steadily since the 1970s. The prestressing strand can be used in both the pre-tensioned and post-tensioned (PT) structures. Two years ago, the University of Texas completed a study where they evaluated various types of prestressing to determine their corrosion-resistance, includi ...

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10. [14.2-FA1: Commercial Space Vehicle Tracking Using 1090 MHz ADS-b](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Commercial space vehicles licensed by the FAA include launch vehicles, re-entry vehicles and manned high altitude balloons. Operations of commercial space vehicles will become increasingly frequent and then routine in various regions of the US. The primary objective of

this research is to ensure no degradation to both the safety and efficiency of the National Airspace (NAS) for other N ...

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